



SEQUENCE LISTING

<110> CHAPMAN, KENT D.
AUSTIN-BROWN, SHEA

<120> METHODS FOR EXTENDING THE FRESHNESS OF CUT FLOWERS, ORNAMENTAL TREES
AND PLANT CUTTINGS

<130> 4380.000400

<140> 09/702,374

<141> 2000-10-30

<150> 60/162,178

<151> 1999-10-28

<160> 15

<170> PatentIn version 3.0

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<212> DNA

<213> Nicotiana tabacum

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ggaactagt	atgaagaaac	tcgtcgctat	tttaagcatt	cttcagtgc	cgtgctactt	300
tgtccccgtt	ctgctggaaa	agggcacagc	tgggtcaaaa	aacaggaaac	tggacaata	360
tacacacatc	atcagaaaac	tgtaatagt	gatgtggatg	ctggtaatta	ccagagaaag	420
attatcgctt	tcgttggtgg	ccttgatttg	tgcaaagggc	gttatgatac	tccacaacac	480
cctatcttta	aaacattgca	aaatgtgcac	aaagatgact	atcatcagcc	taactacacg	540
ggccctacta	ccggttgtcc	tagagaacct	tggcatgatt	tacatagtcg	gatcgagggg	600
cctgctgcat	atgatgtcct	aactaacttc	gaggagcgct	ggttgaaggc	ttcaaagcgc	660
catggacttc	aaaagatgaa	agcttcacaa	gatgatgcat	tactccaact	tgacaggatt	720
tccgacatat	taaaaatagc	tgatgtccct	tgcttaggag	aagatgatgc	agatacgtgg	780
cacgtgcaga	ttttccggtc	gattgactcc	aactctgtta	aaggtttccc	caaagatccc	840
aaagaagcca	ctaacaagaa	tctagtttgt	ggcaagaatg	tgctgataga	tatgagcata	900
catactgcct	atgtaaaggc	aatccgagct	gccaacatt	tcatctacat	tgagaaccag	960
tacttcctag	ggtcctcata	caattggaat	aactaccaag	atttaggtgc	aaataacttg	1020
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Leu	Ile	Tyr	Ile	Thr	Gly	Trp	Ser	Val	Tyr	His	Leu	Val	Thr	Leu	Val	20	25	30	
Arg	Asp	Asn	Gly	Lys	Ala	Glu	Glu	Ser	Met	Leu	Gly	Glu	Ile	Leu	Lys	35	40	45	
Arg	Lys	Ser	Gln	Glu	Gly	Val	Arg	Val	Leu	Leu	Leu	Ile	Trp	Asp	Asp	50	55	60	
Pro	Thr	Ser	Ser	Lys	Ser	Ile	Leu	Gly	Tyr	Lys	Ser	Glu	Gly	Ile	Met	65	70	75	80
Gly	Thr	Ser	Asp	Glu	Glu	Thr	Arg	Arg	Tyr	Phe	Lys	His	Ser	Ser	Val	85	90	95	
His	Val	Leu	Leu	Cys	Pro	Arg	Ser	Ala	Gly	Lys	Gly	His	Ser	Trp	Val	100	105	110	
Lys	Lys	Gln	Glu	Thr	Gly	Thr	Ile	Tyr	Thr	His	His	Gln	Lys	Thr	Val	115	120	125	
Ile	Val	Asp	Val	Asp	Ala	Gly	Asn	Tyr	Gln	Arg	Lys	Ile	Ile	Ala	Phe	130	135	140	
Val	Gly	Gly	Leu	Asp	Leu	Cys	Lys	Gly	Arg	Tyr	Asp	Thr	Pro	Gln	His	145	150	155	160
Pro	Ile	Phe	Lys	Thr	Leu	Gln	Asn	Val	His	Lys	Asp	Asp	Tyr	His	Gln	165	170	175	
Pro	Asn	Tyr	Thr	Gly	Pro	Thr	Thr	Gly	Cys	Pro	Arg	Glu	Pro	Trp	His	180	185	190	
Asp	Leu	His	Ser	Arg	Ile	Glu	Gly	Pro	Ala	Ala	Tyr	Asp	Val	Leu	Thr	195	200	205	
Asn	Phe	Glu	Glu	Arg	Trp	Leu	Lys	Ala	Ser	Lys	Arg	His	Gly	Leu	Gln	210	215	220	
Lys	Met	Lys	Ala	Ser	Gln	Asp	Asp	Ala	Leu	Leu	Gln	Leu	Asp	Arg	Ile	225	230	235	240
Ser	Asp	Ile	Leu	Lys	Ile	Ala	Asp	Val	Pro	Cys	Leu	Gly	Glu	Asp	Asp	245	250	255	

Ala Asp Thr Trp His Val Gln Ile Phe Arg Ser Ile Asp Ser Asn Ser
260 265 270

Val Lys Gly Phe Pro Lys Asp Pro Lys Glu Ala Thr Asn Lys Asn Leu
275 280 285

Val Cys Gly Lys Asn Val Leu Ile Asp Met Ser Ile His Thr Ala Tyr
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Val Lys Ala Ile Arg Ala Ala Gln His Phe Ile Tyr Ile Glu Asn Gln
305 310 315 320

Tyr Phe Leu Gly Ser Ser Tyr Asn Trp Asn Asn Tyr Gln Asp Leu Gly
325 330 335

Ala Asn Asn Leu Ile Pro Met Glu Ile Ala Leu Lys Ile Ala Asn Lys
340 345 350

Ile Arg Ala Asn Glu Arg Phe Ser Val Tyr Ile Ile Val Pro Met Trp
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Pro Glu Gly Val Pro Thr Ser Thr Ala Thr Gln Arg Ile Leu Phe Thr
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Gln His Lys Thr Ile Glu Met
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His Xaa Lys Xaa Xaa Xaa Xaa Asp
1 5